

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

1. (Previously Presented) An antimicrobial concentrate composition comprising:  
about 35 to about 45 weight-% acetic acid, about 5 to about 15 weight-% octanoic acid, about 3 to about 8 weight-% hydrogen peroxide, about 8 to about 16 weight-% peroxyacetic acid, about 1 to about 5 weight-% peroxyoctanoic acid, and about 0.1 to about 2 weight-% chelating agent;  
wherein the composition comprises at least about 1 part by weight of peroxyoctanoic acid for each about 5 parts of peroxyacetic acid.
2. (Original) The antimicrobial concentrate composition of claim 1, comprising about 40 weight-% acetic acid, about 10 weight-% octanoic acid, about 5 weight-% hydrogen peroxide, about 12 weight-% peroxyacetic acid, about 3 weight-% peroxyoctanoic acid, and about 0.6 weight-% chelating agent.
3. (Previously Presented) An antimicrobial use composition comprising:  
about 10 to about 150 ppm acetic acid, about 5 to about 40 ppm octanoic acid, about 4 to about 20 ppm hydrogen peroxide, about 5 to about 50 ppm peroxyacetic acid, about 2 to about 25 ppm peroxyoctanoic acid, and about 0.2 to about 2.5 ppm chelating agent;  
wherein the composition comprises at least about 1 part by weight of peroxyoctanoic acid for each about 5 parts of peroxyacetic acid.
4. (Canceled)
5. (Canceled)

6. (Previously Presented) An antimicrobial concentrate composition comprising:

an equilibrium mixture resulting from a composition of about 50 to about 60 weight-% acetic acid, about 10 to about 20 weight-% octanoic acid, about 5 to about 15 weight-% hydrogen peroxide, and about 0.3 to about 1 weight-% chelating agent;

wherein the equilibrium mixture comprises at least about 1 part by weight of peroxyoctanoic acid for each about 5 parts of peroxyacetic acid.

7. (Original) The antimicrobial concentrate composition of claim 6, comprising an equilibrium mixture resulting from a composition of about 54 weight-% acetic acid, about 14 weight-% octanoic acid, about 10 weight-% hydrogen peroxide, and about 0.6 weight-% chelating agent.

8. (Previously Presented) An antimicrobial concentrate composition comprising:

about 50 to about 60 weight-% acetic acid, about 10 to about 20 weight-% octanoic acid, about 5 to about 15 weight-% hydrogen peroxide, and about 0.3 to about 1 weight-% chelating agent;

wherein the composition comprises at least about 1 part by weight of peroxyoctanoic acid for each about 5 parts of peroxyacetic acid.

9. (Original) The antimicrobial concentrate composition of claim 8, comprising about 54 weight-% acetic acid, about 10 weight-% hydrogen peroxide, about 0.6 weight-% chelating agent, and about 14 weight-% octanoic acid.

10-30. (Canceled)

31. (Previously Presented) An aqueous flume for washing or transporting produce comprising:

about 10 to about 150 ppm acetic acid, about 5 to about 40 ppm octanoic acid, about 4 to about 20 ppm hydrogen peroxide, about 5 to about 50 ppm peroxyacetic acid,

about 2 to about 25 ppm peroxyoctanoic acid, and about 0.2 to about 2.5 ppm chelating agent;

wherein the composition comprises at least about 1 part by weight of peroxyoctanoic acid for each about 5 parts of peroxyacetic acid.

32. (Canceled)

33-34. (Canceled)

35. (Previously Presented) The composition of claim 1, wherein the combination of peroxyacetic acid and peroxyoctanoic acid is effective for killing on the surface of a fruit or vegetable pathogenic microorganism comprising *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella javiana*, or mixture thereof.

36. (Previously Presented) The composition of claim 1, wherein the composition comprises at least about 1 part by weight of peroxyoctanoic acid for each about 4 parts of peroxyacetic acid.

37. (Previously Presented) The composition of claim 3, wherein the combination of peroxyacetic acid and peroxyoctanoic acid is effective for killing on the surface of a fruit or vegetable pathogenic microorganism comprising *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella javiana*, or mixture thereof.

38. (Previously Presented) The composition of claim 3, wherein the composition comprises at least about 1 part by weight of peroxyoctanoic acid for each about 4 parts of peroxyacetic acid.

39. (Previously Presented) The composition of claim 6, wherein the combination of peroxyacetic acid and peroxyoctanoic acid is effective for killing on the surface of a fruit or vegetable pathogenic microorganism comprising *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella javiana*, or mixture thereof.

40. (Previously Presented) The composition of claim 6, wherein the equilibrium mixture comprises at least about 1 part by weight of peroxyoctanoic acid for each about 4 parts of peroxyacetic acid.

41. (Previously Presented) The composition of claim 8, wherein the combination of peroxyacetic acid and peroxyoctanoic acid is effective for killing on the surface of a fruit or vegetable pathogenic microorganism comprising *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella javiana*, or mixture thereof.

42. (Previously Presented) The composition of claim 8, wherein the composition comprises at least about 1 part by weight of peroxyoctanoic acid for each about 4 parts of peroxyacetic acid.

43. (Previously Presented) The flume of claim 31, wherein the combination of peroxyacetic acid and peroxyoctanoic acid is effective for killing on the surface of a fruit or vegetable pathogenic microorganism comprising *Escherichia coli* O157:H7, *Listeria monocytogenes*, *Salmonella javiana*, or mixture thereof.

44. (Previously Presented) The flume of claim 31, wherein the flume comprises at least about 1 part by weight of peroxyoctanoic acid for each about 4 parts of peroxyacetic acid.

45. (Previously Presented) An antimicrobial use composition comprising: about 133 ppm acetic acid, about 33 ppm octanoic acid, about 17 ppm hydrogen peroxide, about 40 ppm peroxyacetic acid, about 10 ppm peroxyoctanoic acid, and about 2 ppm chelating agent.

46. (Previously Presented) An aqueous flume for washing or transporting produce comprising:

about 133 ppm acetic acid, about 33 ppm octanoic acid, about 17 ppm hydrogen peroxide, about 40 ppm peroxyacetic acid, about 10 ppm peroxyoctanoic acid, and about 2 ppm chelating agent.